

Completed Industrial Projects

2017

- Established Company : March 2017



- 2 workshops in Bangkok

2019

3rd Commercial feasibility & customized software development with Amino Chem



Software development : Property on Demand funded by NIA organization



Commercial feasibility with PTT Gas Separation, Thailand



2nd Commercial feasibility with Dalian University



1st Process synthesis & design, ExxonMobil, USA



Co-organizer of International conference



2018



1st and 2nd Commercial feasibility & customized software development with Amino Chem



Commercial feasibility with PTT Gas Separation, Thailand



Commercial feasibility with Dalian University



Co-organizer of International conference : ProBioRefine 2018



Workshop 2018 at Chulalongkorn University

2020



Method and customized software development Juhua, China



2nd and 3rd Process synthesis & design, ExxonMobil, USA



1st and 2nd Method and customized software development– Saudi Aramco, Saudi Arabia



Course 2020 at Chulalongkorn University

2021

- PSE for SPEED Webinar Series 2021



- 3rd Method and customized software development– Saudi Aramco, Saudi Arabia



On-going research projects

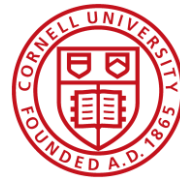
- **Chemical substitution** (Partners from Thailand, Denmark, China, Bangladesh)
- **Refrigerant design** (Partners from Thailand, China)
- **Sustainable process design** (Partners from Thailand, Denmark, China, USA)
- **Chemical product design** (Partners from Thailand, Denmark, China, USA)
- **Biorefinery** (Partners from Thailand, Denmark)
- **Property modelling, including ML-based** modelling (Partners from Thailand, Denmark, China, USA)
- **Software development** (Partners from Thailand, Denmark, India, China, USA)

Research and Development

Joint Research Projects with University (2018-current)*

- **Reactive distillation** : DTU (Denmark), BUET (Bangladesh), Texas A&M (USA)
- **Properties prediction** : Cornell university (USA), ZJU China
- **Process modelling** : KAIST (South Korea)
- **Separation technology** : Wuhan University (China), Auburn University (USA)
- **Process intensification** : Auburn University (USA), ZJU China
- **CO2 capture and utilization** : KAIST (South Korea), ZJU China
- **Integrated Biorefinery** : Chulalongkorn University (Thailand)
- **Chemical product design**
 - Refrigerant design**: ZJUT (China), Juhua Company (China)
 - Chemical substitution**: BUET (Bangladesh), ZJU (China)
 - Solvent design**: Magdeburg University (Germany), DUT (China)
 - Methods & software**: Cornell Univ (USA), ZJU (China), DUT (China)

*Published paper on the above topics can be obtained from PSEforSPEED



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